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Basic Schwarz-Pick type inequalities

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Abstract

Let $\Omega \subset \mathbb{C}$ and $\Pi \subset \mathbb{C}$ be two domains equipped by the Poincaré metric. We are concerned with the set $A(\omega, \Pi) = \{f: \omega \to \Pi$ of functions locally holomorphic or meromorphic in Ω and, in general, multivalued. Let $\lambda\Omega(z)$, $z \in \Omega$, and $\lambda\Pi(w)$, $w \in \Pi$, denote the density of the Poincaré metric at $z \in \Omega$ and $w \in \Pi$, respectively. © 2009 Birkhäuser Verlag AG.

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